

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **01179689 A**

(43) Date of publication of application: **17.07.1989**

(51) Int. Cl **C12N 9/96**
C12N 1/00, C12N 11/00
// C01B 5/02, C12M 1/40

(21) Application number: **63002048**
(22) Date of filing: **08.01.1988**

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(54) STABILIZER FOR ORGANISM CATALYST

(57) Abstract:

PURPOSE: To enable prevention of deterioration of organism catalyst during reaction and preservation thereof and to suppress growth of microorganism during preservation of organism catalyst, by adding a given amount of heavy water to an enzyme, cell, etc. to produce a stabilizer for organism catalyst.

CONSTITUTION: 30W100%, more preferably about

50W100% is added to an enzyme, cell, etc. to give a stabilizer for organism catalyst. Heavy water is directly used as it is or blended with a solvent and an additive and can be used. The stabilizer for organism catalyst can be used as it is in a stable condition of the organism catalyst or can be used as a reaction solution for the organism catalyst by blending the stabilizer with a solution containing a substrate of the organism catalyst so as to make $\geq 30\%$ heavy water concentration or by mixing the stabilizer with a substrate and a pH buffering solution, etc.

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